

US/China Water Resources Program Goals

- Sponsored by U.S. China Forum on Environment and Development
 - Chaired by VP Gore, Premier Zhu Rongji
- Develop a coordinated, sustainable water resources management program between the US and PRC
- Coordinate identification of common problems and develop scientific, technological, and management solutions

US/China Water Resources Management Program - Goals (cont'd)

- Coordinate joint involvement of private sector and world financial community to transfer technical approaches to application
- Develop workshops to further develop water resources management science and technology and green chemistry approaches to avoid pollution

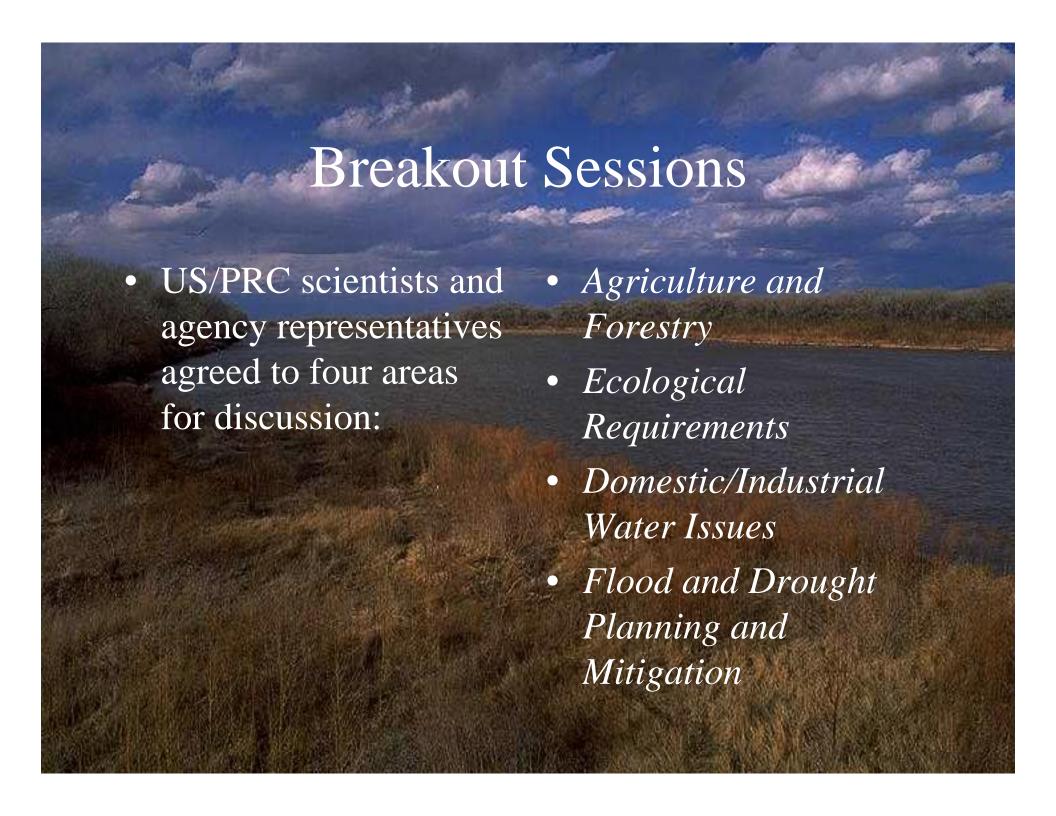
US/China Water Resources Management Workshop

- Held in Tucson, AZ, April 19-22, 1999
- 160 attendees, 53 representatives from the People's Republic of China
- Sponsored by the White House Office of Science and Technology representing U.S. federal agencies
- Ministry of Science and Technology and Ministry of Water Resources leading Chinese agencies



- Summarized in opening remarks by Senator Max Baucus of Montana
- Compare Sino/U.S. approaches to water resource management
- Identify and prioritize key areas where ongoing cooperation could inspire positive changes in water resource management in the US and China, and ultimately, globally







Summary Presentations Agriculture/Forestry

- Soil and water conservation technology
- *Regional watershed management for production and conservation

- Dryland farming management and technology
- * Water harvesting methods
- Watershed modeling technology/data sharing
- * Protective tillage practices
- * Forest conservation practices

Summary Presentations Ecological Requirements

- ★ Techniques and ideas underlying ecological inventories
- ** Paired basin watershed research and monitoring
- * Exchange views on ecological assessment objectives and applications

- * Desertification assessment with development of biological and engineering solutions
- Water and soil
 conservation cooperation
 (remote sensing, model
 creation, long term
 monitoring approaches
 and training/exchange of
 experts

Summary Presentations Ecological Requirements (cont'd)

₩ Wetland collaboration

(this might entail establishing paired sites for landuse/landcover mapping of managed and undisturbed areas, and data collection for GIS

Remote sensing and monitoring, as well as development of decision support models for managers

Summary Presentation Industrial/Domestic Water Use

- * Participate in Green
 Chemistry Initiative and
 activities
- ※ Industry/Public education/outreach
- Develop research programs on alternative energy and treatment technology
- * Develop models to estimate load allocation and calibration

- * Training (GIS-related, other)
- * Coordinate with PRC agencies determination of high risk areas for human health aspects
- * Use GIS to assess global climate change variability
- * Create linkages between US and PRC companies working on design for environment

Summary Presentations Flood/Drought Planning/Mitigation

- * Training PRC professionals in management of flood detention areas; river basin management, water transfers and water management policies
- * US providing consultant services to PRC on study of water shortages in the North and drying of Huang He

- ☼ Development of state-ofthe-art flood controldispatch system (flood information collection system; computer network for data transmission; communication system; data and information processing and prediction)
- * Use of roller compacted concrete for flood control structures



Recommendations (cont'd)

Establish Specific Training Activities

- 1. <u>Training Program on Water-Saving Irrigation and Rehabilitation of Large and Medium Irrigation Districts</u> Bureau of Reclamation already discussing with MWR, support from USDA, DOE, state and local water districts.
- Training Program on Management of Flood Detention Areas and Flood Insurance -Corps of Engineers, support from Office of Foreign Disaster Assistance (USAID), state and local flood control districts.
- 3. <u>Training Program on River Basin Management</u> Tennessee Valley Authority under existing agreement, support from USGS, USDA, BuRec, NOAA, Corps of Engineers
- 4. <u>Training Program on Inter-basin Water Transfer Projects</u> Bureau of Reclamation already discussing with MWR, support from Army Corps, OSTP
- 5. <u>Training Program on Wastewater Treatment and Seawater Desalination</u> EPA, support from BuRec, Commerce, DOE and industry
- 6. Training Program on Water Resources Management and Water Investment Policy
 Office of Science and Technology Policy, support from multiple agencies, Army
 Corps, Academic institutions



